

Rinnai

Owner and installer guide

Rinnai Smart Cylinders™ Mains pressure indoor enamel

Models: Rinnai Smart Cylinders: Mains pressure enamel
(ME13548830S, ME18048830S, ME25059030S)



Hello installer

Please leave this guide with the home owner as it contains important safety and warranty information.

Important:

Cylinders shall be installed in accordance with:

- Manufacturer's installation instructions
- Current AS/NZS 3000, AS/NZS 3500, and G12/AS1
- Local regulations and municipal building codes

Installation, servicing and repair shall be carried out only by authorised personnel.

Owner, please retain this guide for future reference.
Installer, please leave this guide with the owner.

Warning

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life.

The appliance is not to be used by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

For more information about buying, using, and servicing of Rinnai appliances call: 0800 RINNAI (0800 746 624)

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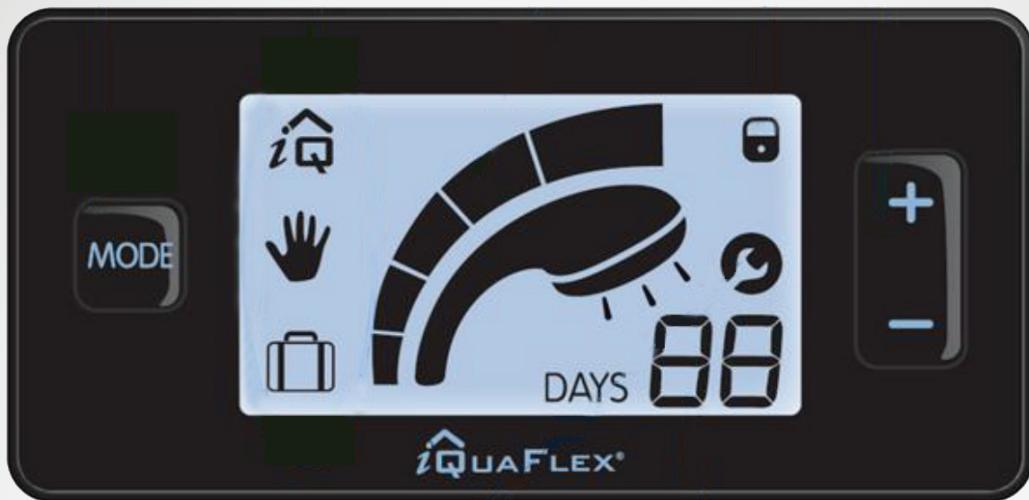
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About your Rinnai Smart Cylinder™

Your Rinnai Smart Cylinder learns the typical hot water use in the home and then heats the water in the tank to suit the anticipated demand. Energy is saved as water is not fully heated when you don't need it.



Your Rinnai Smart Cylinder comes factory preset to operate in automatic mode at a level setting of three. We recommend staying with this setting to achieve a balance between running cost savings and ensuring you have enough hot water.



The mode button enables selection with the + and - buttons to switch between:



iQ automatic mode

Permanently monitors and learns hot water usage habits. After a minimum of one week it will automatically adjust the cylinder heating times according to your hot water usage pattern. A certain amount of hot water is guaranteed at all times depending on the level you select.



Manual mode

Permanently maintains the total volume of water at a temperature according to the selected level—operates just like a traditional electric storage cylinder.



Vacation mode

Keeps the water in the cylinder at a minimum temperature (6 °C) and prevents the water freezing in colder areas.



Water level indicator

This shows the amount of hot water available in the cylinder.



Child lock indicator

Screen is able to be locked to avoid settings being changed. To lock and unlock press the mode and - buttons at the same time and hold for three seconds.



Maintenance/error indicator

Error codes are indicated by the maintenance logo, a flashing background light, and the error code number.



Vacation days and error code

Displays either the number of vacation days (if set) or error code.

iQ automatic mode

 This is the preset default mode for your Rinnai Smart Cylinder. In this mode the level indicator displays an estimate of the amount of hot water available in the tank. The level is monitored and updated in real-time.

There are five different settings available. Your Rinnai Smart Cylinder has been preset to operate on level three which will achieve a balance between energy savings and ensuring you have enough hot water available.

Level	Comfort level	Energy saving level
1	--	+++
2	-	++
3	+	+
4	++	-
5	+++	--

Changing the level setting

Press the + or - buttons and select the level you require—if you don't press any button for three seconds the system will set the level change. The system will then default to showing the estimated amount of hot water in the cylinder again.

Manual mode

 In manual mode the control regulates the water temperature in the cylinder to a preset level. The temperature level is selected by using the + or - buttons, there are five different settings available.

Level	Approx. water temp. in cylinder
1	50 °C
2	55 °C
3	60 °C
4	65 °C
5	70 °C

Biosafe operation

To meet the New Zealand Building Code requirement¹ to disinfect water for legionella bacteria², the system will perform heating above 60 °C whenever risk conditions (<60 °C for 21 days) are detected.

Vacation mode

 If you are going away switch the cylinder to vacation mode. In vacation mode the cylinder will be set to maintain the water at a minimum temperature of 6 °C to prevent the water from freezing.

To select press the mode button until the suitcase icon appears. By default the number of vacation days is undefined (--). If no period is selected the cylinder will stay in vacation mode until the mode is manually changed.

The number of days (maximum 99) can be specified by using the + or - buttons. A long press of the buttons will perform a fast speed day selection. After the specified period, the cylinder will automatically go back to the operating mode that was selected before vacation was set.

Vacation can be cancelled by pressing the iQ or manual mode buttons.

Warmup indicator

A slow blinking of the shower symbol indicates when the element is heating the water (occurs in automatic and manual modes).



¹ Clause G12.3.9

² Legionella is a bacterium that can cause Legionnaires' disease—a severe form of pneumonia



Important

All cylinders have the potential to leak water. To minimise damage to other areas of your home, ensure that your cylinder has been installed with a drip tray—the person doing the installation is responsible for this.



* Refer to the warranty terms and conditions in this guide for more information.

Safety messages

• Element cover

Do not remove the element cover, this will expose 230 V wiring, it must only be removed by an authorised person.

• Damaged components

If any component is damaged, it must be replaced by an authorised person using Rinnai replacement parts.

• Child supervision

Children should be supervised to ensure they do not play with any part of the hot water system.

• Hot pipe work

Care should be taken not to touch the pipe work from the cylinder as this could be very hot.

Safety devices

Your cylinder is fitted with a:

- Temperature & Pressure and Relief (TPR) valve that ensures the water remains at a safe pressure and temperature.
- Automatic thermostat to maintain water temperature.
- Temperature override cutout for heating element.

The operation of the thermal cutout can indicate a dangerous situation. Do not reset the thermal cutout until the water heater has been serviced by a qualified person.

Do not operate the system unless all the safety devices are fitted and are in working order. It is also important that you do not tamper or remove any of these devices.

and service this water heater. Any work carried out by a non-licensed tradesperson is illegal and will void any warranty.

Turning the cylinder on/off (we don't recommend this)



If you switch the cylinder off for more than 18 hours it will lose all the water usage history.

Hydrogen gas



If hot water is not used for two weeks or more, a quantity of hydrogen gas, which is highly flammable, may accumulate in the cylinder. To dissipate safely, it is recommended a hot tap (nonelectrical) be turned on for two minutes at a sink, basin or bath. During this procedure there must be no smoking, open flame, or any other appliance operating nearby.

Draining and filling the system

This normally occurs during installation or servicing and must be carried out by an authorised person.

Installation by a licensed tradesperson

Only a licensed tradesperson can install, adjust, maintain,

Maintenance and servicing

Hot water systems, like cars, require regular maintenance and servicing. To ensure longevity of your cylinder we recommend the following.



Period	What needs to be done
Every six months	TPR (temperature & pressure relief) valve—operate the easing gear
Year five	Inspection and service of the entire hot water system, including the element* and anode
Every 24 months after year five	Inspection and service of the entire hot water system, including the element* and anode

* In hard water areas the element(s) must be periodically descaled. To do this the unit must be drained and the element(s) removed.

TPR valve

This valve is located near the top of the cylinder and is essential for safe operation. The TPR valve works by automatically venting hot water if the temperature or pressure of the water in the cylinder gets too high.

Every six months operate the easing gear to remove lime deposits and to check that it is not blocked. As this will discharge hot water, ensure no one is near the drain line.



Failure to operate the relief valve easing gear at least once every six months may result in the water heater exploding. Continuous leakage of water from the valve may indicate a problem. It is important that you raise and lower the easing gear gently. During the operation,

if the valve does not discharge water when the easing gear is lifted, or does not seal again when closed, arrange for an authorised person to come and inspect the system immediately.



During servicing of your cylinder the TPR valve needs to be checked and/or replaced. This needs to be done by an authorised person at intervals not exceeding five years, or more frequently in areas where the water is classified as hard.

A TPR valve must not be replaced with one that has a higher pressure rating than that specified for the cylinder.

Anodes in enamel tanks

Storage tanks manufactured from metal can be susceptible to corrosion. The combined effects of water pressure,

temperature and water chemistry can create an aggressive environment for corrosion of some materials. For this reason anodes are placed in enamel tanks so as to corrode first. Anodes should be changed every five years or more frequently in hard or aggressive water areas.

Maintenance and servicing

Rinnai has a maintenance, service, and spare parts network with personnel who are fully trained and equipped to give the best advice on your Rinnai product. Regular maintenance and servicing is not covered by the Rinnai warranty.

For help locating a service person in your area call 0800 RINNAI (0800 746 624).

TPR position - top of cylinder



How to operate the easing gear



Lift until water flows from the drain line, lower gently

Troubleshooting

Do not attempt to carry out any work other than that mentioned in this troubleshooting section. If you have any other faults or problems, please contact your installer, or contact Rinnai.

Problem	Recommended action
Error code is flashing on the controller 	Error codes are indicated by the maintenance logo, a flashing background light, and the error code number. Take a note of the error code and phone Rinnai Customer Services (0800 746 624) for advice on whether a plumber or electrician is required.
No display on the controller, but power is on and you have hot water	Call Rinnai Customer Services (0800 746 624).
Keys are not working	Check if the child lock is set. Unlock by pressing the mode and - buttons at the same time for more than three seconds.
I have cold water while in iQ automatic mode	A sudden significant increase of hot water consumption may generate occasional cold water. Change to manual mode and select the desired temperature level and then go back to iQ mode. If this occurs regularly, increase the level in iQ mode or occasionally go into manual mode.
Lack of hot water or no hot water	Is there electricity supply to the cylinder? Check that the isolating switch marked 'hot water' or 'water heater', at the meter box, is switched on. Also check any isolating switches near the water heater are switched on. Check the fuse or circuit breaker marked 'hot water' or 'water heater' at the meter box. Repeated failure of the fuse or tripping of the circuit breaker indicates a fault, which must be investigated by an authorised tradesperson. Most hot water cylinders are controlled at peak times by your electricity supplier via a ripple relay. Contact your electricity supplier to determine if there have been any issues with the power supply.

Problem	Recommended action
Lack of hot water or no hot water	Are you using more hot water than you think?
	Often you don't realise how much water is actually being used. This applies especially when showering. Typical flow rates for showers is approximately 8-10 litres per minute. Conduct a simple experiment by placing a measured bucket under your shower for ten seconds and multiply by six to determine the amount of water produced over a minute. If your result is significantly more than the rates mentioned you may want to consider installing a low flow shower rose—available at all good plumbing stores.
Lack of hot water or no hot water	Cold water relief valve discharging continuously?
	It is normal for the cold water relief valve to discharge a small quantity of water through the drain line. If water is discharging continuously there may be a fault with one of the valves, contact the installer to discuss.
Water is too hot	If possible check the temperature of the water coming out of a hot water tap with a thermometer. If it is higher than 55 °C then this indicates a problem with your system—contact an electrician for advice.
High electricity bills	<p>If you think your electricity bill is too high, investigate the following:</p> <ul style="list-style-type: none"> • Is your controller set correctly • Has your electricity tariff changed? • Is your cold water relief valve discharging continuously? • Are you using more hot water than normal? • Has there been any leaking hot water pipes, or taps?

Resetting the Smart Control (only do as a last resort)

Press and hold the + and - buttons at the same time for five seconds or more. Only do this as a last resort. If you reset during normal operation it will lose all the water usage history as well as the memory setting and will default back to the preset factory setting of iQ automatic mode, level setting three.

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Installation

Installation, servicing and repair
shall be carried out only by
authorised personnel.



Specification summary

Suitability

- Residential indoor installations
- Mains and low pressure systems
- Left or right hand plumbing connections

Not suitable as a pool or spa heater, or for connection to an open loop solar or hot water heat pump system.

The system should be located and arranged so as to achieve the closest proximity to water draw off points. The cylinder also needs to be oriented so that the control is in a position where the homeowner can easily see and access it.

Operating pressures

Maximum working pressure = 850 kPa

Element

3 kW Incoloy 825 alloy sheath element positioned at the bottom of the tank.

Thermostat

• 135 and 180 L

iTS12001 Cotherm iQuaFlex 14 A probe thermostat. Bimetal safety cutout and manual reset at 77 °C.

• 250 L

iTS12004 Cotherm iQuaFlex 14 A probe thermostat. Bimetal safety cutout and manual reset at 82 °C.

Protection against water: IPX1

Incoloy 825 curved element



Weights

	empty	full
• 135 L:	42.5 kg	177.5 kg
• 180 L:	53.5 kg	233.5 kg
• 250 L:	81.5 kg	331.5 kg

Pressure limiting (reducing) valve

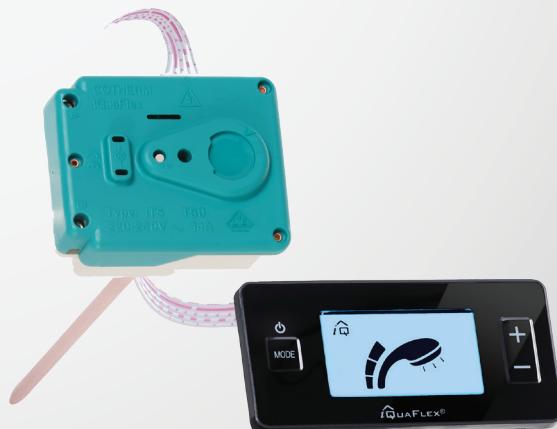
This water heater MUST be installed with a 500 kPa or less pressure limiting valve and appropriate cold water expansion valve.

TPR valve

A temperature and pressure relief valve is supplied with the water heater and MUST be fitted. The TPR valve thread should be sealed with teflon tape, do not use paste and hemp. Use the spanner flats on the valve body to tighten, DO NOT use a wrench on the valve body.

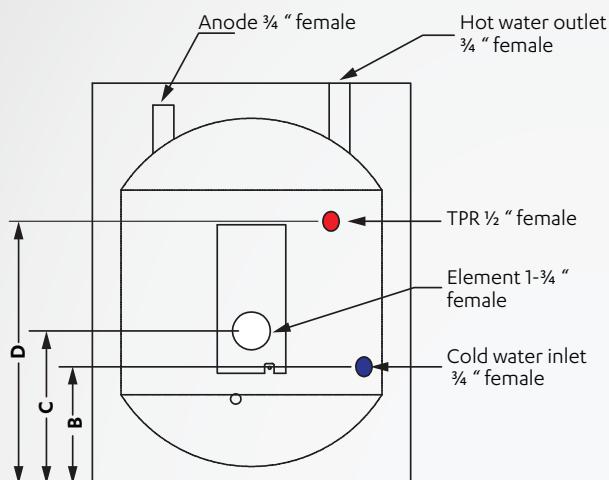
The TPR valve must be fitted with a drain pipe installed in a continuous downward direction, and in a frost-free environment. The drain pipe must be installed to direct any water that may drip from the pressure-relief device to a visible point outside the property—this pipe must be left open to the atmosphere. The drain pipe must be at least the same size as the TPR valve outlet (½ " BSP). Where the drain pipe exceeds three metres in length an air break must be provided within 300 mm of the TPR valve outlet. Where an air break is used it is recommended that the pipe size after the air break be increased to one size larger than the TPR valve.

Cotherm thermostat with control

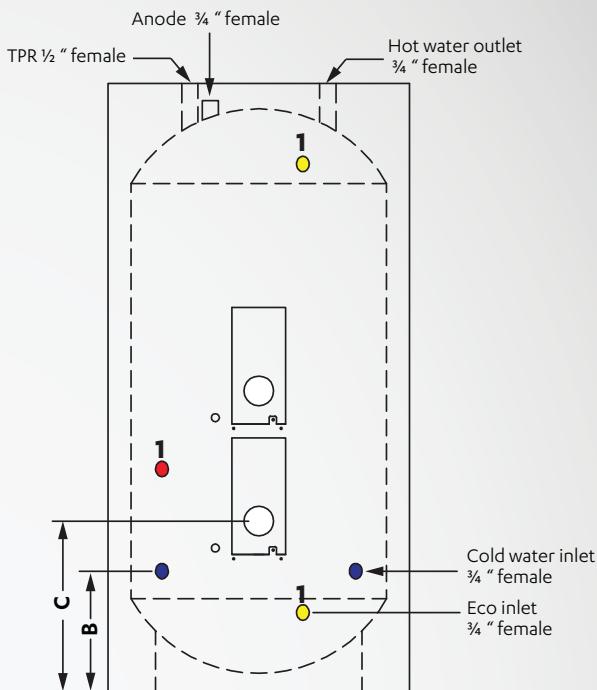


Dimensions

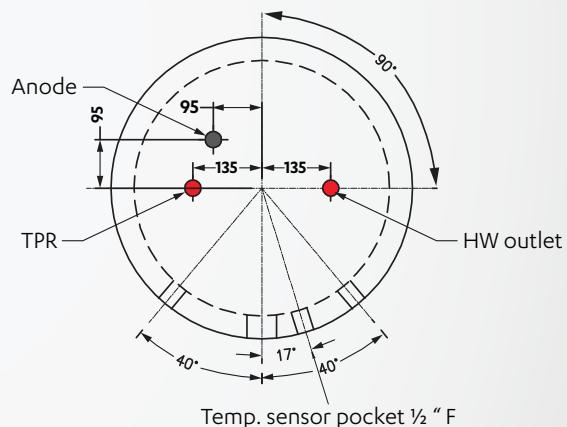
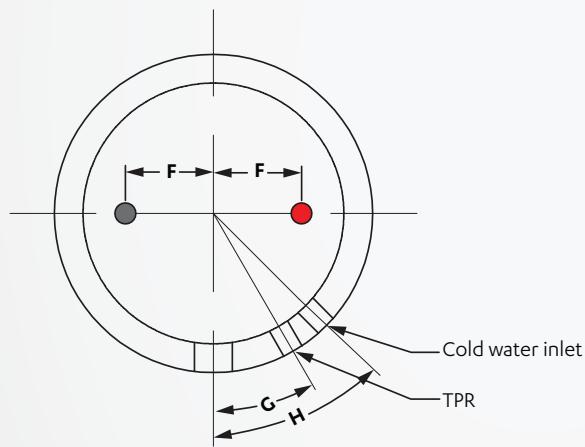
135 L and 180 L



250 L



1 Alternate connections for solar or hot water heat pump, N/A for Rinnai Smart Cylinders

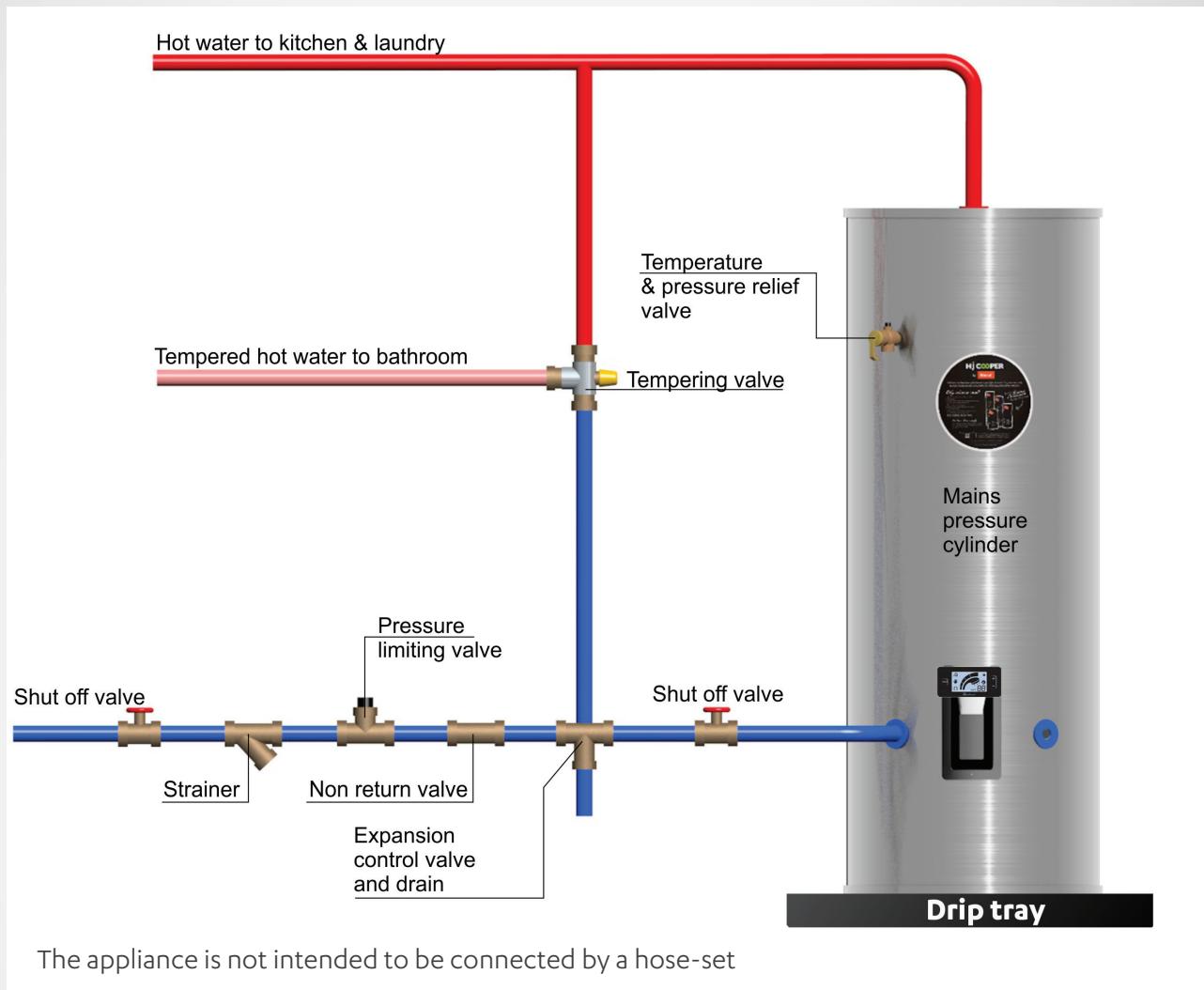


Tank size	B (mm)	C (mm)	D (mm)	Height (mm)	Diam. (mm)
135 L	190	306	1070	1295	Ø 488
180 L	190	306	1440	1660	Ø 488
250 L	235	335	N/A	1580	Ø 590

Plumbing setup

Cylinders should be installed in accordance with G12/AS1. For servicing and maintenance, please allow sufficient room for access to covers and valves.

Plumbing setup for a mains pressure cylinder



Base requirements

Tanks should be installed on a flat level base of sufficient strength to support the weight of the water heater when full.

The water heater must also be suitably restrained against seismic activity, 'G12/AS1 Figure 14' details an acceptable method of restraint.

Drip tray/catch pan (MUST be fitted)

The Rinnai warranty does not cover any consequential loss from leaks to the cylinder, so it's important a suitably drained drip tray/catch pan is fitted.

Position of control

Make sure the control is in a position that is easily seen and accessible for the homeowner.

Pipe work

It is the installer's responsibility to adequately size the distribution pipe work in a property to ensure sufficient performance from all outlet fittings. Water pipe sizing should be performed in accordance with AS/NZS 3500.4 and/or G12 AS1. Pipe sizing and valve selection must be performed to allow for the water supply pressure.

A drain off tap or line must be fitted to the inlet of the water heater.

All hot water pipe work should be insulated with polythene foam or equivalent insulation to optimise performance and energy efficiency.

To prevent damage to the water heater when attaching pipe clips or saddles to the jacket, it is recommended that self drilling screws with a maximum length of 12 mm are used. If drilling is required take extreme care not to penetrate the inner cylinder.

Storage and delivery temperatures

Storage temperature: Biosafe operation

To meet the New Zealand Building Code requirement¹ to disinfect water for legionella bacteria, the system will perform heating above 60 °C whenever risk conditions (<60 °C for 21 days) are detected.



The access cover to the element and thermostat must only be removed by an electrician or other suitably qualified tradesperson.

Sanitary fixtures delivery temperature

Water temperatures over 55 °C can cause severe scalds. Local regulations must be considered regarding temperature limitations of hot water supplied to areas used primarily for personal hygiene. The temperature is limited to 45 °C for early childhood centres, schools, nursing homes or similar facilities and 55 °C for all other buildings. To comply with these requirements, a temperature limiting device, such as a tempering or thermostatic mixing valve will be required on all installations.

¹ Clause G12.3.9

Water quality

Rinnai water heaters are manufactured to suit most NZ council water supplies. However some water supplies can have a detrimental effect on the water heater, its operation, and life expectancy.



Hard water

Hard water (containing calcium carbonate) can cause scaling on hot surfaces. We recommend a water temperature of no more than 65 °C to minimise scale build-up. Scale reducing or water softening devices should be considered in hard water areas. The unit is not guaranteed against damage due to scaling.

Water quality outside the limits (as set down below) will void this warranty. Water quality tests must be carried out at the customer's own cost but Rinnai will reimburse any reasonable test costs where water quality is within the limits tabled.

Water quality and impurity limits

TDS (Total Dissolved Solids)	Total Hardness CaCO ₃	Dissolved (free) CO ₃	pH	Langelier Index
Up to 600 mg/L or ppm	Up to 200 mg/L or ppm	Up to 25 mg/L or ppm	6.5-8.5	Between -1.0-0.8

Most metropolitan water supplies fall within these limits. If you are unsure about water quality, please contact Rinnai and we will provide you with the details of an authorised agency able to test your water for compliance to Rinnai standards. If sludge or foreign matter is present in the water supply, a suitable filter should be incorporated in the water supply.

Some examples of water quality issues where water may need to be treated:

- Hard water (areas including Wanganui)
- Aggressive water (areas including Christchurch)
- Both hard and aggressive water (some bore water)

Electrical supply and connections

The electrical connection must be carried out by a qualified person in accordance with NZ Electrical Regulations. The water heater must have the heating element connected to an independent, fused, AC 230 V 50 Hz power supply with an isolating switch installed at the switch board. Disconnect all power prior to installation and commissioning.

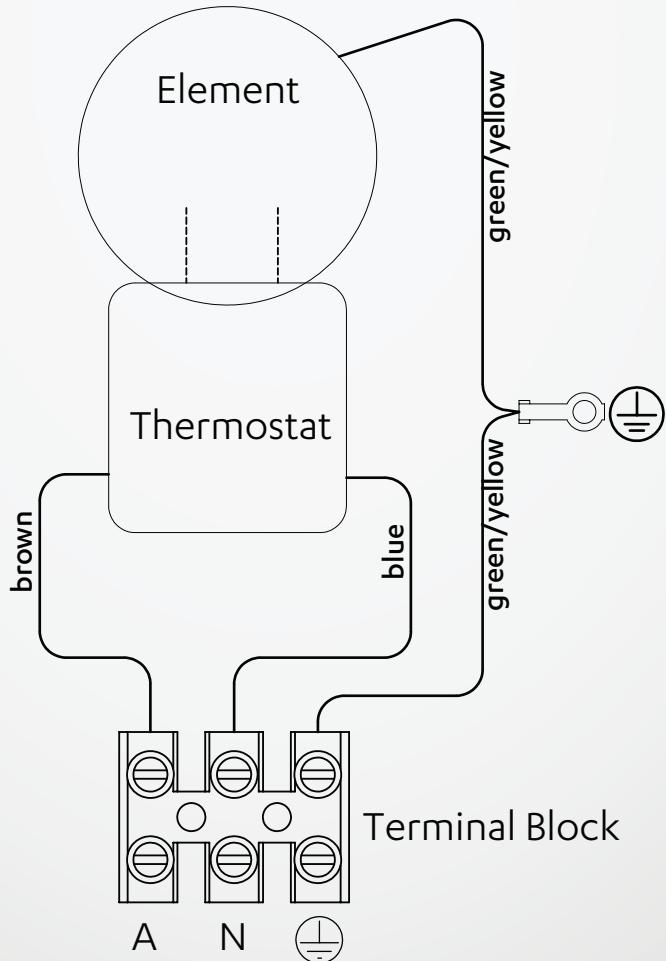
- The water heater must be filled with water prior to connection to the power supply
- Household wiring to the heater must be capable of withstanding the appliance load
- Fixed wiring must be protected from contact with the internal hot surface of the water heater

Electrical access is via a hole in the element cover for mounting with an approved electrical conduit gland. For entry to the element cover remove the two fixing screws.

Connect all Live, Neutral and Earth wires in accordance with the wiring diagram. Inspect and ensure all wiring links are secure prior to fixing the access cover and turning the power on.

To ensure the over-temperature and energy cutout is set press the 'reset' button on the thermostat.

The appliance is intended to be connected to cables of fixed wiring which has a cross-sectional area of 1.5 mm² - 2.5 mm².



Valves and fittings

Valves with pressure ratings other than those listed in this manual must not be used.

Fittings supplied with the cylinder

TPR valve, brass plugs, to plug unused connections, a key spanner, and the owner and installer guide are packaged in a plastic bag inside the element cover.

Commissioning

Commissioning and draining activities must be carried out by an authorised person.

To fill and turn on the water heater

1. Open all hot water taps in the house including the shower.
2. Open the cold water isolation valve to the water heater. Air will now be forced out of the taps.
3. Close each tap when the water runs freely without air bubbles.
4. Check all plumbing connections and pipe work for water leaks.
5. Switch on the electric power supply.

To turn off the water heater

It may be necessary to turn off a water heater after installation and commissioning, for example during building activities or if the premises are vacant.

1. Switch off the electricity supply at the isolating switch to the water heater.
2. Close the cold water isolation valve at the inlet to the water heater.

To drain the water heater

1. Turn off the water heater as above.
2. Close all the hot water taps.
3. Gently operate the TPR valve release, this will relieve the pressure in the water heater.
4. Open the drain valve—make sure no damage will occur from discharged water.
5. Operate the TPR valve again. This allows air into the water heater and will result in the water draining.

Limited Warranty

Rinnai warranty summary table

This warranty applies to Rinnai Mains Pressure Enamel Smart Cylinders only.

All terms of the warranty, subject to the conditions below, are effective from the date of installation. Proof of installation date will be required. Where the date of installation is not known or cannot be proven the warranty will commence one month after the date of manufacture—refer to the data label on the cylinder.

Single residential application warranty

A residential application is defined as an installation where the water heater, with the thermostat set below 70 °C, delivers hot water to a single family residential dwelling, not used for commercial purposes¹.

Component	Warranty period	Warranty
All components	Up to 1 year	Replace or repair free of charge the cylinder and/or part if it fails due to faulty manufacture.
Inner cylinder	Years 2-5 inclusive	Replace or repair free of charge* the inner cylinder if it fails due to faulty manufacture.

¹ Examples where a residential dwelling is used for commercial purposes; hair salon, catering kitchen, communal care facility etc. These installations would be considered commercial applications. An exception would be an accommodation business such as a motel, where the water heater serves the equivalent of a single family dwelling, this would be a residential application.

* Except for certain travel and transport costs, refer to the 'Warranty terms and conditions' (9).

General warranty terms

Rinnai reserves the right to make modifications and change specifications and its parts without notice.

For the purposes of the Consumer Guarantees Act 1993, Rinnai only guarantees the availability of repair facilities and spare parts for the express warranty periods recorded in the Rinnai warranty summary table.

If the cylinder is being acquired for personal, domestic or household use, this warranty does not limit any consumer rights or guarantees that may apply under the Consumer Guarantees Act 1993. If the product is being acquired for the purposes of a business, the provisions of the Consumer Guarantees Act 1993 do not apply and no other warranties (either express or implied by law) apart from those stated in this warranty apply.

Warranty terms and conditions

1. All terms of this warranty are effective from the date of installation. The attending service person reserves the right to verify this date.
2. All Rinnai cylinders must be installed, commissioned, serviced, repaired and removed in accordance with the manufacturer's installation instructions, local regulations, and municipal building codes by persons authorised to do so.
3. All Rinnai cylinders must be operated and maintained in accordance with manufacturer's instructions.

Warranty terms and conditions continued

4. The warranty applies only to the components supplied by Rinnai. It does not apply to components supplied by others, such as, but not limited to these, isolating valves, electrical switches, pipe work, electrical cables, and fuses.
5. Where the cylinder has not been sited in accordance with the installation instructions or installed such that normal service access is difficult, a service charge will apply. If at the discretion of the attending service person the installation is deemed illegal or access is dangerous, service will be refused. Any work required to gain reasonable access to the cylinder will be chargeable by the attending service person (for example, removal of cupboards, doors, walls, or the use of special equipment to move components, but not limited to these).
6. The cylinder warranty is for the period indicated in the summary table. Where the inner cylinder and/or part is replaced under warranty, the replacement cylinder and/or part will carry a new warranty.
7. Rinnai reserve the right to transfer functional components from defective water heaters if they are suitable.
8. Rinnai reserve the right to have the installed product returned to the factory for inspection.
9. Where the cylinder is installed outside the metropolitan area or further than 40 km from a Rinnai authorised service centre, travel costs shall be the owner's responsibility.
10. Rinnai reserves the right to replace the cylinder for another type if upon inspection it is deemed another cylinder of a different construction is more suitable.

Warranty exclusions

The following exclusions may cause the warranty to become void and will result in a service charge and costs of parts (if required).

1. Accidental damage and acts of God.
2. Failure due to abuse or misuse, improper maintenance or improper storage.
3. Failure due to incorrect or unauthorised installations.
4. Failure or damage caused by alterations, service or repair work carried out by persons other than those authorised by Rinnai.
5. Where the cylinder has failed directly or indirectly as a result of poor water quality outside the limits specified.

TDS (Total Dissolved Solids)	Total Hardness CaCO₃	Dissolved (free) CO₃	pH	Langelier Index
Up to 600 mg/L or ppm	Up to 200 mg/L or ppm	Up to 25 mg/L or ppm	6.5-8.5	Between -1.0-0.8

6. Where it is found that there is no fault with the cylinder and the issue is related to the installation or is due to power failure.
7. Subject to any statutory provisions to the contrary, Rinnai does not accept:
 - a. liability for consequential damage or any incidental expenses resulting from any breach of the warranty,
 - b. claims for damage to building or any other consequential loss either directly or indirectly due to leaks or any other faults.

Warranty examples in the real-world

We understand warranty information can be confusing. To help clarify what this means in the real-world we have developed some single residential application scenarios to clarify what would fall within warranty and what wouldn't.

Scenario	Age of part/ cylinder	Within warranty	
Faulty thermostat	10 months	Yes	All costs covered by Rinnai.
Faulty element	3 years	No	All costs covered by the owner.
Cylinder leaks as a result of a faulty inner cylinder and causes damage to carpets and flooring	11 months	Yes/No	Cost of cylinder replacement covered by Rinnai. Consequential loss, damage to carpets and flooring, is not ¹ .
Outer cylinder showing signs of corrosion	3 years	No	Only the inner cylinder is covered by warranty

¹Consequential losses

All cylinders are required to be installed with a drip tray, this is a mandatory requirement of the installation. If damage is caused by a leaking cylinder that has not been installed with a drip tray the owner can seek compensation through the installer or consider claiming on insurance.

Proof of purchase

RECORD YOUR DETAILS
OF PURCHASE BELOW:

ATTACH YOUR PROOF OF
PURCHASE HERE:

Retailer: _____

Retailer address: _____

Date of purchase: _____

Product details: _____

Please keep these details in a safe place for future reference.

Installer details

Company name: _____

Installer name: _____

Address: _____

Phone: _____ Mobile: _____

Signed: _____ Date: _____



Experience our innovation

Rinnai.co.nz | **0800 746 624**

<http://www.youtube.com/rinnainz>

<http://www.facebook.com/rinnainz>

20431-A